

sequence listing
SEQUENCE LISTING

<110> Chan, Raquel

<120> Transcription factor gene induced by water deficit conditions and abscisic acid from Helianthus annuus, promoter and transgenic plants

<130> US PCT

<160> 22

<170> PatentIn version 3.1

<210> SEQ ID N°1

<211> 774

<212> DNA

<213> Helianthus annuus

<400> 1

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aaacgattta cgcacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga	180
cccaggttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagt	240
gcgatatggt tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat	300
aacgcgctaa agcataacta cgagacgctt gcgtctaaat ccgagtctct aaagaaagag	360
aatcaggccc tactcaatca ggtatggttg caaacttaca atgttgcat caactattta	420
agtagttttg aatttttggtg acaataaaga ttgacaaatg ttgtttgata attgattaac	480
agttggagggt gctgagaaat gtagcagaaa agcatcaaga gaaaactagt agtagtggca	540
gcggtgaaga atcggatgat cggtttacga actctccgga cgttatgttt ggtcaagaaa	600
tgaatgttcc gttttgcgac ggttttgcgt actttgaaga aggaaacagt ttgttgaga	660
ttgaagaaca actgccagac cctcaaaagt ggtgggagtt ctaaagagta aagaaggatg	720
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<210> SEQ ID N°2

<211> 673

<212> DNA

<213> Helianthus annuus

<400> 2

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cccaggttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagt	240
gcgatatggt tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat	300
aacgcgctaa agcataacta cgagacgctt gcgtctaaat ccgagtctct aaagaaagag	360

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aatcaggccc tactcaatca gttggaggtg ctgagaaatg tagcagaaaa gcatcaagag	420
aaaactagta gtagtggcag cggatgaaga tcggatgac ggtttacgaa ctctccggac	480
gttatgtttg gtcaagaaat gaatgttccg ttttgcgacg gttttgcgta ctttgaagaa	540
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taaagagtaa agaaggatgt agaagtagta gagtaaaaaac taaaacatac cagatagttg	660
gtttacactt tgt	673

<210> SEQ ID N°3
 <211> 1221
 <212> DNA
 <213> Helianthus annuus

<220>
 <221> promoter
 <222> (1)..(1221)
 <223> Large allele

<400> 3	
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aaaaccgct tggctcaagg atcgaactag cgattgctgc ctactcgcct aatctcccat	720
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cgcacccatg aattttttt ctagggatgc gaacgagtgg ttttaaccata cttttaagag	840
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tgcggtgaaa aggacaaaac aggtaggatt cttgtcaaata tcaacgcgta cacctgtgct	1140

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tcattctaaac cccatactttt aagaaccttt ataaagacca ctcactatat atacacatat 1200
ataatatcac ttatcaaacc c 1221

<210> SEQ ID N°4
<211> 28
<212> DNA
<213> Artificial

<220>
<223> Designed oligonucleotide based on the promoter and having Hind I
II site

<400> 4
gcgaagcttg atgcgaacga gtggttta 28

<210> SEQ ID N°5
<211> 28
<212> DNA
<213> Artificial

<220>
<223> Designed oligonucleotide based on the promoter and having Sal I
site

<400> 5
gcggtcgaca cctggcacat cgtatctt 28

<210> SEQ ID N°6
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Designed oligonucleotide based on the promoter and having Bam HI
site

<400> 6
cgcgatccg agggtttgat aagtgat 27

<210> SEQ ID N°7
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Designed oligonucleotide based on the promoter and having Hind I
II site

<400> 7
cccaagctta acctaagtcc gcctttg 27

<210> SEQ ID N°8
<211> 27
<212> DNA
<213> Artificial

sequence listing

<220>

<223> Designed oligonucleotide based on the promoter and having Hind II I site

<400> 8

ggcaagctta tctcaaccga aagtgac

27

<210> SEQ ID N°9

<211> 19

<212> DNA

<213> Artificial

<220>

<223> Designed oligonucleotide based on the 5' promoter

<400> 9

atttcgcaag tagtccatt

19

<210> SEQ ID N°10

<211> 1015

<212> DNA

<213> Helianthus annuus

<400> 10

gatccaattg gaccacctgg cacatcgtat cttatctctt ttgtcgtttc caacacacca	60
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atattaaaag tagtagcccc caccgccatt tgttacctac catttcccac tttaataatc	180
accacgcta tgtccacttg tacttttggt tgcacacaac tcttcccata aaatatcaaa	240
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gattcttgct aaattcaacg cgtacacctg tgcttcatct aaaccccata ctttaagaac	960
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<210> SEQ ID N°11

<211> 28

sequence listing

<212> DNA
 <213> Artificial

 <220>
 <223> Designed oligonucleotide that matches nucleotides 81-100 of the H
 ahb-4 cDNA sequence and having Bam HI site

 <400> 11
 ggcgcatcca acagaaacaa ccaccagg 28

 <210> SEQ ID N°12
 <211> 29
 <212> DNA
 <213> Artificial

 <220>
 <223> Designed oligonucleotide for cloning 5' cDNA and having Bam HI s
 ite

 <400> 12
 ggcgatccc ctggtggttg tttctgttg 29

 <210> SEQ ID N°13
 <211> 34
 <212> DNA
 <213> Artificial

 <220>
 <223> oligonucleotide based on 5' cDNA and having Xho I site

 <400> 13
 gaggactcga gctcaagttt tttttttttt tttt 34

 <210> SEQ ID N°14
 <211> 18
 <212> DNA
 <213> Artificial

 <220>
 <223> Oligonucleotide based on 5' cDNA and having Xho I site

 <400> 14
 gaggactcga gctcaagc 18

 <210> SEQ ID N°15
 <211> 29
 <212> DNA
 <213> Artificial

 <220>
 <223> Designed oligonucleotide based on the promoter and having Eco RI
 site

 <400> 15
 gccgaattca gattgagcaa gagtataac 29

 <210> SEQ ID N°16
 <211> 19

sequence listing

<212> DNA
 <213> Artificial
 <220>
 <223> Designed oligonucleotide based on the promoter
 <400> 16
 acctttataa agaccactc 19

<210> SEQ ID N°17
 <211> 19
 <212> DNA
 <213> Artificial
 <220>
 <223> Designed oligonucleotide based on the promoter
 <400> 17
 acgcaatggt gagttgtac 19

<210> SEQ ID N°18
 <211> 24
 <212> DNA
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 <223> oligonucleotide to DNA-binding assays
 <400> 18
 aattcagatc tcaataattg agag 24

<210> SEQ ID N°19
 <211> 24
 <212> DNA
 <213> Artificial
 <220>
 <223> oligonucleotide to DNA-binding assays
 <400> 19
 gatcctctca attattgaga tctg 24

<210> SEQ ID N°20
 <211> 30
 <212> DNA
 <213> Artificial
 <220>
 <223> oligonucleotide having Bam HI site
 <400> 20
 gcgggatcca ccatgtctct tcaacaagta 30

<210> SEQ ID N°21
 <211> 30
 <212> DNA
 <213> Artificial

sequence listing

<220>

<223> oligonucleotide having Sac I site

<400> 21

gccgagctct tagaactcca accacttttg

30

<210> SEQ ID N°22

<211> 27

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide having Bam HI site

<400> 22

ggcggatccg tctcccagtt gttcttc

27

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